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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,498	08/24/2006	Naruhito Nakahara	500.46461X00	1068
20457	7590	12/15/2009	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP			LEBASSI, AMANUEL	
1300 NORTH SEVENTEENTH STREET				
SUITE 1800			ART UNIT	PAPER NUMBER
ARLINGTON, VA 22209-3873			2617	
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			12/15/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/590,498	NAKAHARA ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	AMANUEL LEBASSI	2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 31 August 2009.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-3,5-9 and 11-13 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-3,5-9 and 11-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 24 August 2006 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                 | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                        | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application |
|   | 6) <input type="checkbox"/> Other: _____ .                        |

Deleted: 1

### **DETAILED ACTION**

1. Applicant's arguments with respect to claims 1-3, 5-9, 11-13 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 5-9, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ludwig et al US 6487218 in view of Mandayam US 7308260.

Regarding claim 1, Ludwig discloses a communication terminal apparatus to be connected to a communication network through a connection operation using a Point to Point Protocol (PPP) (**see Fig. 2 and col. 6, lines 64-65 - point-to-point connections**). Ludwig discloses a phase information combination section for combining Link Control Protocol (LCP) information item (col. 3, lines 17 and col. 4, lines 44-47 a Link Control Protocol (LCP) which is link establishment phase), an authentication information item (col. 3, lines 23-28, and col. 4, lines 47-53 - authentication phase) and a Network Control Protocol (NCP) information item ( col. 4, lines 53-56, a third phase which is an NCP Phase) regarding the PPP with each other to create data (**col. 4, lines 58-62**

**where IPCP phase is established that conforms to PPP and IP therefore phase information combination).** Ludwig discloses an encapsulation section for converting data created by the phase information combination section to conform to the communication network (**col. 5, lines 45-57 – encapsulating section for converting data**). Ludwig discloses a data transmission section to transmit the data converted by the encapsulation section via the communication network to a communication apparatus as a destination (**col. 4, lines 14-24 – where data is transmitted over a channel**).

However, Ludwig is silent on disclosing communication terminal apparatus to be connected to a communication network through a connection operation. Mandayam teaches communication terminal apparatus to be connected to a communication network through a control operation (Fig. 2 and **col. 6, lines 50 - 56 where session is implemented according to PPP protocols and is referred to as the authentication network stream**).

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to modify the inventions of Ludwig and add that of Mandayam. The motivation would be to **support authentication of wireless communication devices accessing the services** (**col. 1, lines 8-12**).

Regarding claim 2, Ludwig discloses a communication terminal apparatus to be connected to a communication network using a Point to Point Protocol (PPP) (**see Fig. 2 and col. 6, lines 64-65 - point-to-point connections**).

Ludwig discloses a plurality of phase processing sections for executing control processing for the PPP connection in parallel (**col. 4, lines 58-62 where IPCP phase is established that conforms to PPP and IP therefore phase information combination**). Ludwig discloses a data receiving section for receiving data including a plurality of phase information items via the communication network from a communication partner (**Fig. 3 and col. 4, lines 14-24 – where data is received by a network node**). Ludwig discloses a phase information development section for discriminating respective phase information items in the data received by the data receiving section and transmitting the respective phase information items to respective one of the phase processing sections conforming thereto (**col. 4, lines 58-62**). Ludwig discloses a phase information combination section for receiving the phase information items processed by the plural phase processing sections and combining the plural phase information items with each other to create data(**col. 4, lines 58-62 where IPCP phase is established that conforms to PPP and IP therefore phase information combination**). Ludwig discloses an encapsulation section for converting data created by the phase information combination section to conform to the communication network (**col. 5, lines 45-57 – encapsulating section for converting data**). Ludwig discloses a data transmission section for transmitting the data converted by the encapsulation section via the communication network to the communication partner (**col. 4, lines 14-24 – where data is transmitted over a channel**).

However, Ludwig is silent on disclosing executing a plurality of control processing. Mandayam teaches executing a plurality of control processing (**col. 9, lines 59-63** **plurality of microprocessors therefore** executing a plurality of control processing ).

Regarding claim 3, Ludwig discloses a communication terminal apparatus characterized wherein the plurality of phase processing sections include a Line Control Protocol (LCP) phase processing section, an authentication phase processing section, and a Network Control Protocol (NCP) phase processing section (col. 2 lines 6-11 and col. 3, lines 13-38).

Regarding claim 5, Ludwig discloses a communication terminal apparatus wherein the phase information combination section combines an LCP information item, an authentication information item, and an NCP information item with each other (col. 2 lines 6-11 and col. 3, lines 13-38).

Regarding claim 6, Ludwig discloses a communication terminal apparatus wherein the phase information combination section combines an LCP information

item, an authentication information item, and an NCP information item with each other (col. 5, lines 47-54 and col. 3, lines 13-38).

Regarding claim 7, see similar rejection claim 1.

Regarding claim 8, see similar rejection claim 2.

Regarding claim 9, see similar rejection claim 3.

Regarding claim 11, see similar rejection claim 5.

Regarding claim 12, see similar rejection claim 6.

Regarding claim 13, Ludwig discloses a communication method of conducting communication between a communication terminal apparatus and a network access apparatus connected to a communication network using a Point to Point Protocol (PPP) (**see Fig. 2 and col. 6, lines 64-65 - point-to-point connections**). Ludwig discloses transmission-side apparatus creating a plurality of information items regarding a control phases for the PPP connection (**col. 4, lines 58-62 where IPCP phase is established that conforms to PPP and IP therefore phase information combination**) and transmitting first data created by combining the plural information items , via the communication network to a

receiving-side apparatus (**col. 4, lines 14-24 – where data is transmitted over a channel to receiving side**) and by the receiving-side apparatus, discriminating the respective information items regarding to the respective control phases in the received first data regarding a control phase (**col. 4, lines 14-24**). Ludwig discloses executing a plurality of control processing corresponding to the respective information items in parallel and creating second data created by combining information items regarding plural control, results of the plurality of control processings and transmitting the second data via the communication network to the transmission-side apparatus (**col. 4, lines 58-62**).

However, Ludwig is silent on disclosing executing a plurality of control processing. Mandayam teaches executing a plurality of control processing (**col. 9, lines 59-63** **plurality of microprocessors therefore executing a plurality of control processing** ).

### ***Conclusion***

1. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amanuel Lebassi, whose telephone number is (571) 270-5303. The Examiner can normally be reached on Monday-Thursday from 8:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Nick Corsaro can be reached at (571) 272-7876. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

*Amanuel Lebassi*

/A. L./

12/05/2009

/NICK CORSARO/

Supervisory Patent Examiner, Art Unit 2617